

Position Description (PD) for Yucca Mountain Lead Lab Activities

Position Description Number	YM038	
Creation Date of PD	07/05/2006	
Job Title	TSPA Staff Analyst	
SNL Dept Name	Total Systems Performance Assessment	
SNL Org Number (or TBD)	6854	
Number of Openings	10	
Description of Position	<p><u>TSPA Staff Analyst</u></p> <p>This position performs model development, analyses, documentation, and quality assurance to support the Total System Performance Assessment of the Yucca Mountain Repository. Responsibilities include:</p> <ul style="list-style-type: none"> Developing TSPA models that are consistent with abstraction model descriptions and inputs provided by the Post Closure Science organizations; Implement and execute developed TSPA models in the total system model and perform verification analyses and document work in accordance with applicable quality assurance procedures; Perform probabilistic uncertainty and sensitivity analyses using the total system model to support decision making and repository performance projections Interpret and document results of complex total system analyses Must demonstrate and communicate Sandia's corporate values (integrity, excellence, teamwork, respect for the individual, and national service) to the workforce. 	
Required Skills & Experience	<p><u>Required Skills</u></p> <ul style="list-style-type: none"> Working knowledge of YMP post closure processes relevant to long-term performance and model areas Working knowledge of probabilistic analyses from a total system perspective Excellent oral and written communication skills <p><u>Required Experience</u></p> <ul style="list-style-type: none"> Experience with total system calculations Experience with probabilistic analyses and interpretation of complex results Familiarity with YMP quality assurance programs Experience with YMP project science programs, or comparable experience in analogous programs 	
Desired Skills & Experience (if applicable)		
Required Education (Degrees & Levels)	An advanced degree in engineering or physical sciences is required.	
Desired Education (Degrees & Levels - if applicable)	N/A	
Full Time Position? (Y/N)	Y	
Job Requires lifting 35+ Pounds (Y/N)	N	
Desired Start Date	10/1/06	
Can this position accommodate...		
Part Time Employees? (Y/N)	Telecommuting? (Y/N)	Foreign Nationals? (Y/N)
N	N	Y

Please Select All Related WBS Elements for this PD
(required for distributing PDs to contract providers for sourcing)

WBS Elements of 1.5.01	Name	
1.5.01.01	Project Management	X
WBS Elements of 1.5.02		
1.5.02.06	License Defense	X
WBS Elements of 1.5.03		
1.5.03.01	Safety Analyses Integration-Post Closure Safe	X
1.5.03.02	Total System Performance Assessment - Post Closure Safety	X

Sand #: 2006-4508W